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				тні	ER R	EFER	RENC	ES (I	nclud	ing Author,	Title,	Date, Pertinent	Pages, e	tc.)		
Cong, Y-S., Wen, J., and Bacchetti, S. the Gene and Characterization of the P					., "The Huma Promoter", H	an Tel um. N	lomerase Catalyt Iol. Gen. <u>8</u> : 137-	ic Subunit 142 (1 Jai	hTERT nuary 19	: Organiz 99)	ation o					
		С	Horikawa, I., "Cloning and Characterization of the Promoter Region of Human Telomerase Reverse Transcriptase Gene", Cancer Res. 59: 826-830 (15 February 1999)													
		D	Kilian, A., Bowtell, D., Abud, H., Hime, G., Venter, D., Keese, P., Duncan, Reddel, R., and Jefferson, R., "Isolation of a Candidate Human Telomerase Catalytic Subunit Gene, Which Reveals Complex Splicing Pattern in Different Cell Types", Hum. Mol. Gen. 6(12): 2011-2019 (1997)													
		E	The state of the s								ech, T Augu					
		F	Collination Collin								ificatio					

EXAMINER O	DATE CONSIDERED

Encoding the Human Telomerase Reverse Transcriptase (hTERT)", Gene 232: 97-106 (1999)

Wick, M., Zubov, D., and Hagen G., "Genomic Organization and Promoter Characterization of the Gene

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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			U.S. Departr of Commerce Patent and hark Office SUPI'LEMENTAL AZION DISCLOSURE CITATION							l l	Group / Filing I 9/582,246 Group / Filing I 06/22/2		Date Atty. Docket No. 2000 Le A 32 805			
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J K			/	Blasco, M. A., Rizen, M., Greider, C. W., and Hanahan, D., "Differential Regulation of Telomerase Activity and Telomerase RNA During Multi-stage Tumorigenesis", Nature Genetics, 12: 200-204 (Feb. 1996)												
			V	Broccoli, D., Young, J. W., and De Lange, T., "Telomerase Activity in Normal and Malignant Hematopoietic Cells", Proc. Natl. Acad. Sci. USA, 92: 9082-9086 (Sept. 1995)												
				Counter, C. M., Avilion, A. A., LeFeuvre, C. E., Stewart, N. G., Greider, C. W., Harley, C. B., and Bacchetti, S., "Telomere Shortening Associated with Chromosome Instability is Arrested in Immortal Cells Which Express Telomerase Activity", The EMBO Journal, 11(5): 1921-1929 (1992)												
		v M		Allsop	p, R.	C., Y	u, J., I	Le, S.	, Wes	, Weinrich, S. t, M. D., Harle an Telomeras	y, C. B.,	Andrews, W	. H., Greid	ler, C. W	., Villepo	ng, E., inteau,
		N V	ł	Geng, Initiati 13(8):	ion Sit	es of 1	he TA	I-AT	Less M	ck of an Initial	ator Elem /late Syntl	ent is Respo hase Promote	nsible for ler", Molecu	Multiple ılar and C	Transcrij Cellular B	otional iology,
		o ,	:	Goldst (Sept.	ein, S 1990)	5., "Re	eplica	tive S	enesc	ene: The Hur	nan Fibro	blast Comes	of Age",	Science,	<u>249</u> :1129	9-1133
√ _P				Harley, C. B., Futcher, A. B., and Greider, C. W., "Telomeres Shorten During Ageing of Human Fibroblasts", Nature, 345: 458-460 (May 1990)												
Hastie, N. D., Dempster, M., Dunlop, I Reduction in Human Colorectal Carci						p, M. G., Thor rcinoma and	M. G., Thompson, A. M., Green, D. K., and Allshire, R. C., "Telomere cinoma and with Ageing", Nature, 346: 866-868 (Aug. 1990)									
	8	√ R		Hiyama, K., Hirai, Y., Kyoizumi, S., Akiyama, M., Hiyama, E., Piatyszek, M. A., Shay, J. W., Ishioka, S., and Yamakido, M., "Activation of Telomerase in Human Lymphocytes and Hematopoitetic Progenitor Cells", J. Immunol., 155: 3711-3715 (1995)												

EXAMINER DATE CONSIDERED 11/2104

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SUPPLEMENTAL INFORMATION DISCLOSURE CITATION

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INFO		IPPLEMENTAL N DISCLOSURE CITATION	Applicant(s)	Hagen, et al.		Atty. Docket No. Le A 327415				
	T					707				
	S	Kim, N. W., Piatyszek, M. A., Pro Wright, W. E., Weinrich, S. L., Sl Immortal Cells and Cancer", Scien	nay, J. W., "Spec	ific Association of	D., Ho, P. L. C Human Telome	., Covietiens M., erase Activity With				
TANKO	T \	Lingner, J., Hughes, T. R., Shevcho Motifs in the Catalytic Subunit of	enko, A., Mann, I Telomerase'', Scie	M., Lundblad, V., C ence, <u>276</u> : 561-567	ech, T. R., "Re (April 1997)	verse Transcriptase				
•	U	Lundblad, V., and Szostak, J. W., " Yeast", Cell, 57: 633-643 (May 19		Defect in Telomere	Elongation Lea	ads to Senescene in				
	v	McClintock, B., "The Stability of (March 1941)	Broken Ends of	Chromosomes in 2	Zea Mays", Ger	netics, <u>26</u> : 234-282				
	√ w		zis, R. K., "Conservation of the Human Telomerase Sequence (TTAGGG)n . Acad. Sci. USA, <u>86</u> : 7049-7053 (Sept. 1989)							
	V×	Olovnikov, A. M., "A Theory of M Synthesis of Polynucleotides and B (1973)	larginotomy. The	Incomplete Copyi ance of the Phenom	ng of Template enon", J. Theor	Margin in Enzymic Biol., <u>41</u> : 181-190				
	√ Y	Sandell, L. L., and Zakian, V. A., "Cell, <u>75</u> : 729-739 (Nov. 1993)	Loss of a Yeast 7	Celomere: Arrest, R	ecovery, and C	hromosome Loss",				
	∫ Z	Shapiro, M. B., and Senapathy, P., Statistics and Functional Implication (1987)								
	√AA	Smale, S. T., and Baltimore, D., "(April 1989)	Γhe "Initiator" as	a Transcription Co	ntrol Element"	, Cell, <u>57</u> : 103-113				
	BB V	Smale, S. T., "Transcription Initia Genes", Biochimica et Biophysica	ation from TATA Acta, <u>1351</u> : 73-8	A-less Promoters V 8 (1997)	Vithin Eukaryo	tic Protein-Coding				
·	√DD	Shay, J. W., Werbin, H., and Wright Ciba Foundation Meeting: Telome	, W. E., "Telomer eres and Telomera	ase Assays in the Di se, pages 148-159	agnosis and Pro London (1997)	gnosis of Cancer',				
	, EE	Vaziri, H., Dragowska, W., Allsop for a Mitotic Clock in Human Hem Acad. Sci. USA, <u>91</u> : 9857-9860 (O	atopoietic Stem (T. E., Harley, C. B Cells: Loss of Telor	., and Lansdorp neric DNA with	, P. M., "Evidence n Age", Proc. Natl.				
	√ FF	Wick, M., Haronen, R., Mumberg, "Structure of the Human TIMP-3 G (1995)	D., Burger, C., O ene and its Cell C	lsen, B. R., Budarf, ycle-Regulated Pro	M. L., Apte, S. moter", Biocher	S., and Muller, R., n. J., <u>311</u> : 549-554				
nl	\sqrt{g}	Zakian, V. A., "Telomeres: Beginn	ning to Understan	d the End", Science	270: 1601-16	507 (Dec. 1995)				

EXAMINER	DATE CONSIDERED
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• EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.